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ABSTRACT

Disclosed is a thermoplastic transparent resin composition and a method for manufacturing the same. The resin composition includes 3-15 parts by weight of small aperture polybutadiene rubber latex; 5-25 parts by weight of large aperture polybutadiene rubber latex; 40-70 parts by weight of a methacrylic acid alkylester compound or an acrylic acid alkylester compound; 15-30 parts by weight of an aromatic vinyl compound; and 1-20 parts by weight of a vinylcyan compound. The method includes the steps of a) producing a small aperture polybutadiene rubber latex having an average particle diameter of 600-1500 A, a gel content of 70-95 %, and a swelling index of 12-30 by reacting butadiene at 55-70 °C using a polymerization initiator; b) producing a large aperture polybutadiene rubber latex having a particle diameter of 2600-5000 A, a gel content of 70-95 %, and a swelling index of 12-30 by enlarging the small aperture polybutadiene rubber latex particles; c) performing graft copolymerization at 65-80 °C by continuously or separately adding 3-15 parts by weight of the small aperture polybutadiene rubber latex of step a), 5-25 parts by weight of the large aperture polybutadiene rubber latex of step b), 40-70 parts by weight of a methacrylic acid alkylester compound or an acrylic acid alkylester compound, 15-30 parts by weight of an aromatic vinyl compound, and 1-20 parts by weight of a vinylcyan compound.

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